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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/988,958	11/19/2001	Naoki Oguchi	FUJZ 19.185	9665
26304	7590	06/15/2005	EXAMINER	
KATTEN MUCHIN ROSENMAN LLP			LEE, ANDREW CHUNG CHEUNG	
575 MADISON AVENUE			ART UNIT	
NEW YORK, NY 10022-2585			PAPER NUMBER	
			2664	
DATE MAILED: 06/15/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/988,958

Applicant(s)

OGUCHI ET AL.

Examiner

Andrew C. Lee

Art Unit

2664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 11/19/2001.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 5, 9, 11 are rejected under 35 U.S.C. 102(e) as being anticipated by McCanne (U.S. Patent No. 6611872 B1).

Regarding claims 1, 5, 9, McCanne discloses the limitation of a virtual network construction method, system, apparatus comprising the steps of generating and multicasting control packets each having set a multicast address predetermined per virtual network in first relaying apparatuses originating a virtual network within a public data communication network (Abstract, lines 1 – 7; column 6, lines 14 – 16, lines 19 – 23; lines 38 – 50), and establishing virtual links to the first relaying apparatuses which are transmitting sources of the control packets upon receipt thereof and returning reply packets through the virtual links in second relaying apparatuses belonging to the multicast address group, whereby the virtual links are established between all pairs of the first and the second relaying apparatuses belonging to the multicast address group to construct the virtual network (column 9, lines 24 – 42).

Regarding claim 11, McCanne discloses the limitation of the relaying apparatus as claimed in claimed further comprising means for generating a routing table for each of a plurality of virtual networks logically independent of one another, and means for performing a packet relay of each virtual network based on the routing table (column 17, lines 30 – 43; column 18, lines 24 – 27).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 6, 10, 3, 7, 12, 4, 8, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCanne (U.S. Patent No. 6611872 B1) in view of Ylonen et al. (U.S. Patent No. 6438612 B1).

Regarding claims 2, 6, 10, McCanne discloses the limitation of a virtual network construction method, system, apparatus comprising the steps of generating and multicasting control packets each having set a multicast address predetermined per virtual network in first relaying apparatuses originating a virtual network within a public data communication network (Abstract, lines 1 – 7; column 6, lines 14 – 16, lines 19 – 23; lines 38 – 50). McCanne does not disclose expressly the virtual network construction method, system, apparatus as claimed in claimed wherein the second

Art Unit: 2664

relaying apparatuses authenticate the control packets received. Ylonen et al. discloses the limitation of the virtual network construction method, system, apparatus as claimed in claimed wherein the second relaying apparatuses authenticate the control packets received (Abstract, lines 12 – 19; column 7, lines 65 – 67; column 8, lines 1 – 9). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify McCanne to include the virtual network construction method, system, apparatus as claimed in claimed wherein the second relaying apparatuses authenticate the control packets received such as that taught by Ylonen et al. in order to provide secure transmission of data packets in a network comprising so-called virtual routers.

Regarding claims 3, 7, 12, McCanne discloses the limitation of a virtual network construction method, system, apparatus comprising the steps of generating and multicasting control packets each having set a multicast address predetermined per virtual network in first relaying apparatuses originating a virtual network within a public data communication network (Abstract, lines 1 – 7; column 6, lines 14 – 16, lines 19 – 23; lines 38 – 50). McCanne does not disclose expressly the virtual network construction method, system, apparatus as claimed in claimed wherein the virtual links comprise IP tunnels. Ylonen et al. discloses the limitation of the virtual network construction method, system, apparatus as claimed in claimed wherein the virtual links comprise IP tunnels (column 2, lines 17 – 23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify McCanne to include the virtual network construction method, system, apparatus as claimed in claimed wherein the virtual links comprise IP tunnels such as that taught by Ylonen et al. in

order to provide secure transmission of data packets in a network comprising so-called virtual routers.

Regarding claims 4, 8, 13, McCanne discloses the limitation of a virtual network construction method, system, apparatus comprising the steps of generating and multicasting control packets each having set a multicast address predetermined per virtual network in first relaying apparatuses originating a virtual network within a public data communication network (Abstract, lines 1 – 7; column 6, lines 14 – 16, lines 19 – 23; lines 38 – 50). McCanne discloses the limitation of the virtual network construction method, system, apparatus as claimed in claimed wherein the virtual links comprise MPLS tunnels. Ylonen et al. discloses the limitation of the virtual network construction method, system, apparatus as claimed in claimed wherein the virtual links comprise MPLS tunnels (column 2, lines 53 – 59). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify McCanne to include the virtual network construction method, system, apparatus as claimed in claimed wherein the virtual links comprise MPLS tunnels such as that taught by Ylonen et al. in order to provide secure transmission of data packets in a network comprising so-called virtual routers.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Lee whose telephone number is (571) 272-

Art Unit: 2664

3131. The examiner can normally be reached on Monday through Friday from 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ACL

June 06, 2005


Ajit Patel
Primary Examiner